

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **2000-047552**

(43)Date of publication of application : **18.02.2000**

(51)Int.Cl.

G03H 1/02
G03F 7/004
G03F 7/032

(21)Application number : **10-214438** (71)Applicant : **TOPPAN PRINTING CO LTD**

(22)Date of filing : **29.07.1998** (72)Inventor : **DEMACHI YASUYUKI**
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(54) PHOTSENSITIVE COMPOSITION FOR VOLUME-PHASE TYPE HOLOGRAM AND RECORDING MEDIUM FOR HOLOGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a photosensitive composition for volume-phase type hologram with which dry development is enabled, it is not necessary to be sealed between cover films or glass substrates on the upper layer of photosensitive layers and transparency, weather resistance, sensitivity, diffraction efficiency and regenerative waveform reproducibility can be improved and a recording medium for hologram.

SOLUTION: This photosensitive composition for volume-phase type hologram is composed of a resin A which is solvent-soluble and becomes a solid on the conditions of ordinary temperature and ordinary pressure, cationic polymerizable monomer B which is a liquid on the condition of normal temperature and pressure, has a boiling point not lower than 100°C under normal pressure and further has a refractive index different from that of the resin A, photopolymerization initiator C for activating cationic polymerization when exposed to active rays, and sensitizing dye D having an amino group for sensitizing the photopolymerization initiator C.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision
of rejection]

[Kind of final disposal of application
other than the examiner's decision of
rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against
examiner's decision of rejection]

[Date of extinction of right]

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